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This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A tetrakisfluoroalkylborate salt of general formula (I)



wherein

M^{n+} is a univalent, bivalent, or trivalent cation,

each of the ligands R are the same and straight-chained or branched, representing (C_xF_{2x+1}) , with $1 \leq x \leq 8$, and

$n = 1, 2$ or 3 .

2. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the M^{n+} cation is an alkali metal cation.

3. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the M^{n+} cation is a magnesium or aluminum cation.

4. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein M^{n+} is an organic cation.

5. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 33, wherein $1 \leq o \leq 6$, $0 \leq p \leq 2o + 1$, and $0 \leq q \leq 2o + 1$, and A represents an aromatic residue optionally having heteroatoms, or a 5- or 6-membered cycloalkyl residue.

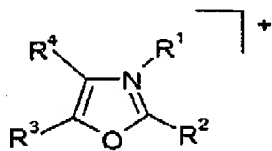
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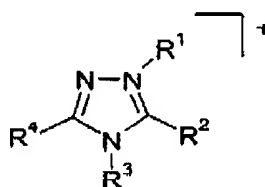
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(VIII)



(IX)

wherein

the residues R^1 to R^6 , each of which is the same or different, and optionally two of the residues R^1 to R^6 together, represent H, a halogen, or a C_{1-6} alkyl residue optionally substituted by F, Cl, $N(C_2F_{(2a+1-b)}H_b)_2$, $O(C_2F_{(2a+1-b)}H_b)$, $SO_2(C_2F_{(2a+1-b)}H_b)$, or $C_2F_{(2a+1-b)}H_b$ wherein $1 \leq a \leq 6$, and $0 \leq b \leq 2a+1$.

8. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the ligands R are the same, representing (C_xF_{2x+1}) , with $x = 1$ or 2.

9. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein each of the ligands R are the same, representing a CF_3 residue.

10. (Previously Presented) A method of producing a tetrakisfluoroalkylborate salt of claim 9, wherein at least one compound of general formula (X)



is fluorinated by reacting with at least one fluorinating agent in at least one solvent, and the thus-obtained fluorinated compound having the general formula (I) is purified and isolated.

11. (Previously Presented) A method according to claim 10, wherein the reaction with the fluorinating agent is performed at a temperature ranging from -80 to $+20^\circ\text{C}$.

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12. (Previously Presented) A method according to claim 10, wherein fluorine, chlorine fluoride, chlorine trifluoride, chlorine pentafluoride, bromine trifluoride, bromine pentafluoride, or a mixture of at least two of these fluorinating agents is used as a fluorinating agent.

13. (Previously Presented) A method according to claim 10, wherein hydrogen fluoride, iodine pentafluoride, dichloromethane, chloroform, or a mixture of at least two of these substances is used as a solvent.

14. (Previously Presented) A mixture, comprising:

- a) at least one tetrakisfluoroalkylborate salt of general formula (I) according to claim 1, and
- b) at least one polymer.

15. (Previously Presented) A mixture according to claim 14, wherein the mixture comprises 5 – 99 wt.-% of component a) and 95 – 1 wt.-% of component b).

16. (Previously Presented) A mixture according to claim 14, wherein a component b) is a homopolymer or copolymer of an unsaturated nitrile, a vinylidene, an acrylate, a methacrylate, a cyclic ether, an alkylene oxide, a siloxane, a phosphazene, an alkoxy silane, or an organically modified ceramic, or a mixture of at least two of the above-mentioned homopolymers and/or copolymers and optionally at least one organically modified ceramic.

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17. (Previously Presented) A mixture according to claim 16, wherein the component b) is a homopolymer or copolymer of vinylidene difluoride, acrylonitrile, methyl (meth)acrylate, or tetrahydrofuran.

18. (Previously Presented) A mixture according to claim 14, wherein the polymer is at least partially crosslinked.

19. (Previously Presented) A mixture according to claim 14, wherein the mixture further comprises at least one solvent.

20. (Previously Presented) A mixture according to claim 19, wherein a solvent is an organic carbonate, an organic ester, an organic ether, an organic amide, a sulfur-containing solvent, an aprotic solvent, or at least a partially fluorinated derivative of the above-mentioned compounds, or a mixture of at least two of these compounds and/or fluorinated derivatives.

21. (Previously Presented) A method of producing a mixture according to claim 14, wherein at least one tetrakisfluoroalkylborate salt of general formula (I)



wherein

M^{n+} is a univalent, bivalent, or trivalent cation,

each of the ligands R are the same and straight-chained or branched, representing

(C_xF_{2x+1}) , with $1 \leq x \leq 8$, and

$n = 1, 2$ or 3 ,

and at least one polymer and optionally at least one solvent are mixed.

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22. (Previously Presented) A method according to claim 21, wherein said mixing is effected at an elevated temperature.

23. (Canceled)

24. (Previously Presented) An electrolyte comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1, or at least one mixture thereof further comprising at least one polymer.

25. (Previously Presented) An electrolyte according to claim 24, wherein the concentration of the tetrakisfluoroalkylborate salt(s) in the electrolyte is from 0.01 to 3 mol/l.

26. (Previously Presented) A primary battery comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1 or at least one mixture thereof further comprising at least one polymer.

27. (Previously Presented) A secondary battery comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1 or at least one mixture thereof further comprising at least one polymer.

28. (Previously Presented) A capacitor comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1 or at least one mixture thereof further comprising at least one polymer.

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29. (Previously Presented) A supercapacitor comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1 or at least one mixture thereof further comprising at least one polymer.

30. (Previously Presented) A galvanic cell comprising at least one tetrakisfluoroalkylborate of general formula (I) according to claim 1 or at least one mixture thereof further comprising at least one polymer.

31. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the M^{n+} cation is a lithium, sodium or potassium cation.

32. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the M^{n+} cation is a lithium cation.

33. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 1, wherein the M^{n+} cation is a nitrosyl cation, a nitryl cation, or an organic cation of general formula $[N(R^7)_4]^+$, $[P(N(R^7)_2)_k R_{4-k}]^+$, with $0 \leq k \leq 4$, or $[C(N(R^7)_2)_3]^+$, wherein each of the residues R^7 are the same or different, representing

H,

$C_o F_{2o+1-p-q} H_p A_q$, or

A,

wherein

$1 \leq o \leq 10$,

$0 \leq p \leq 2o + 1$,

$0 \leq q \leq 2o + 1$, and

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A represents an aromatic residue optionally having heteroatoms, or a 5- or 6-membered cycloalkyl residue.

34. (Currently Amended) A tetrakisfluoroalkylborate salt according to claim 4-33, wherein A is a phenyl or pyridine residue.

35. (Previously Presented) A tetrakisfluoroalkylborate salt according to claim 7, wherein the halogen is fluorine.

36. (Previously Presented) A method according to claim 10, wherein the reaction with the fluorinating agent is performed at -60 – 0°C.

37. (Previously Presented) A method according to claim 10, wherein chlorine fluoride, chlorine trifluoride, or a mixture of at least two fluorinating agents comprising chlorine fluoride and/or chlorine trifluoride is used as a fluorinating agent.

38. (Previously Presented) A method according to claim 10, wherein hydrogen fluoride is used as a solvent.

39. (Previously Presented) A mixture according to claim 14, wherein the mixture comprises 60 – 99 wt.-% of component a) and from 40 – 1 wt.-% of component b).

40. (Previously Presented) A mixture according to claim 16, wherein the unsaturated nitrile is acrylonitrile, the vinylidene is a vinylidene difluoride, the acrylate is a methyl acrylate, the methacrylate is a methyl methacrylate, the cyclic ether is a tetrahydrofuran, or the alkylene oxide is an ethylene oxide.

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41. (Previously Presented) A mixture according to claim 16, wherein the component b) is a homopolymer or copolymer of vinylidene difluoride.

42. (Previously Presented) A mixture according to claim 20, wherein the organic carbonate is ethylene carbonate, propylene carbonate, butylene carbonate, dimethyl carbonate, diethyl carbonate, ethyl methyl carbonate, or methyl propyl carbonate; the organic ester is methyl formate, ethyl formate, methyl acetate, ethyl acetate, methyl propionate, ethyl propionate, methyl butyrate, ethyl butyrate, or γ -butyrolactone; the organic ether is diethyl ether, dimethoxyethane, or diethoxyethane; the organic amide is dimethylformamide or dimethylacetamide; the sulfur-containing solvent is dimethylsulfoxide, dimethyl sulfite, diethyl sulfite, or propanesultone; or the aprotic solvent is acetonitrile, acrylonitrile, or acetone.

43. (Previously Presented) A method according to claim 21, wherein the mixing is effected at 20 – 90°C.

44. (Previously Presented) A method according to claim 21, wherein the mixing is effected at 40 – 60°C.

45. (Previously Presented) An electrolyte, a primary battery, a secondary battery, a capacitor, a supercapacitor, or a galvanic cell comprising at least one tetrakisfluoroalkylborate salt according to claim 1, or a mixture comprising at least one tetrakisfluoroalkylborate salt and at least one polymer, optionally in combination with other conducting salts and/or additives.

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46. (Previously Presented) An electrolyte according to claim 24, wherein the concentration of the tetrakisfluoroalkylborate salt(s) in the electrolyte is 0.01 – 2 mol/l.

47. (Previously Presented) An electrolyte according to claim 24, wherein the concentration of the tetrakisfluoroalkylborate salt(s) in the electrolyte is 0.1 – 1.5 mol/l.

48. (Previously Presented) A tetrakisfluoroalkylborate salt of formula (I)



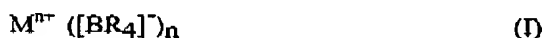
wherein

M^{n+} is a magnesium or aluminum cation;

each of the ligands R are the same and straight-chained or branched, representing (C_xF_{2x-1}) , with $1 \leq x \leq 8$; and

$n=1, 2$ or 3 .

49. (Previously Presented) A tetrakisfluoroalkylborate salt of formula (I)



wherein

M^{n+} is an organic cation;

each of the ligands R are the same and straight-chained or branched, representing (C_xF_{2x-1}) , with $1 \leq x \leq 8$; and

$n=1, 2$ or 3 .

50. (Previously Presented) A tetrakisfluoroalkylborate salt of formula (I)



wherein

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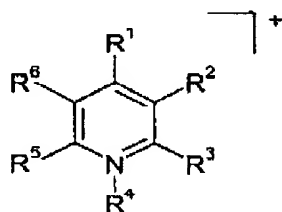
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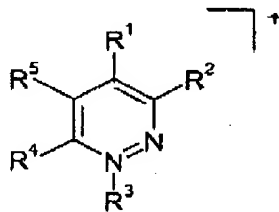
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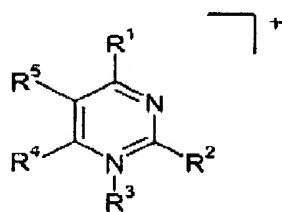
M^{n+} is a heteroaromatic cation of general formulas (II) to (IX):



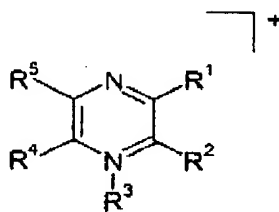
(II)



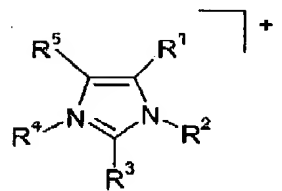
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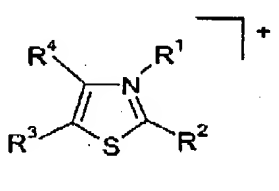
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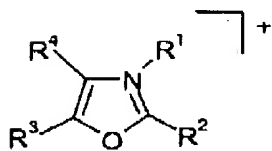
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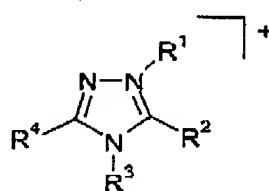


(VII)



(VIII)

or



(IX)

wherein

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the residues R^1 to R^6 , each of which is the same or different, and optionally two of the residues R^1 to R^6 together, represent H, a halogen, or a C_{1-8} alkyl residue optionally substituted by F, Cl, $N(C_aF_{(2a+1-b)}H_b)_2$, $O(C_aF_{(2a+1-b)}H_b)$, $SO_2(C_aF_{(2a+1-b)}H_b)$, or $C_aF_{(2a+1-b)}H_b$ wherein $1 \leq a \leq 6$, and $0 \leq b \leq 2a+1$;

each of the ligands R are the same and straight-chained or branched, representing (C_xF_{2x+1}) , with $1 \leq x \leq 8$; and

$n = 1, 2$ or 3 .

51. (Previously Presented) A mixture comprising 5 – 99 wt.% of at least one tetrakisfluoroalkylborate salt of formula (I)



M^{n+} is a univalent, bivalent, or trivalent cation,

each of the ligands R are the same and straight-chained or branched, representing (C_xF_{2x+1}) , with $1 \leq x \leq 8$; and

$n = 1, 2$ or 3 ; and

95 – 1 wt.% of at least one polymer.

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